CHOMTECH

WIEGAND - RS-232 CONVERTER

MADE IN POLAND

The WIEGAND to RS-232 converter is an advanced device designed to convert signals from the WIEGAND interface—commonly used in proximity card readers and access control devices—into the RS-232 serial communication standard. This allows for seamless integration of both modern and legacy security systems with infrastructure based on serial interfaces, which are widely used in building automation and industrial applications.

The device is specifically designed for easy integration in OEM projects, enabling direct embedding into end-user devices developed by manufacturers of security, access control, and automation systems.

The converter serves as an effective tool for upgrading existing installations and enhancing their functionality, as well as for migrating or bridging diverse systems and technologies—including devices from different manufacturers, RFID cards, and WIEGAND readers.
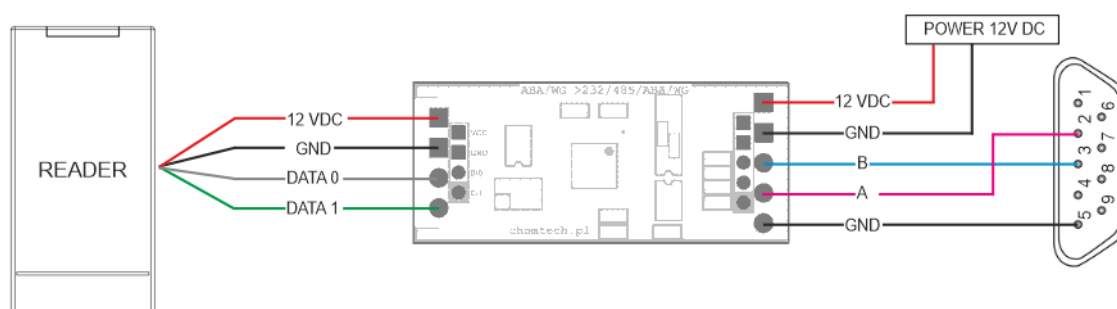
For more complex implementations, it is also possible to deploy dedicated data processing algorithms tailored to the unique requirements of a given system.

TECHNICAL SPECIFICATIONS

POWER SUPPLY	9-13V DC
POWER CONSUMPTION	~15mA (without readers)
READERS INTERFACE	WIEGAND
COMPATIBLE READERS	proximity, biometrics, barcodes, magnetic, OCR, ICR, OMR, RFID, UHF
TRANSMISSION PARAMETERS RS-232	9600bps, None, 8, 1
MOUNTING HOLES	4pcs - diameter 3mm
DIMENSIONS [mm]	48 x 20 x 11
WEIGHT [g]	55 (PCB)
OPERATING TEMPERATURE	-10°C - +55°C
STORAGE TEMPERATURE	-20°C - +70°C
HUMIDITY RELATIVE	under 80%
OPTIONS	AC adapter 12V DC, 500mA; connection cables - 1m / DB9 connector (RS-232); housing (material - ABS)

CONNECTION DIAGRAM

EXAMPLES OF CONNECTION TO READER(RS-232 PORT)

MEANS OF COMMUNICATIONS

UART transmission parameters:
- baudrate: 9600bps
- stop bits: 1bit
- parity bits: 1bit

Example of the read number:

`*E86FF91F00#20<CR><LF>`

where:

`*` - mark of the beginning transmission

`E86FF91F00` - ASCII card number

`#20` - 0x20=32, 32 bits was read

`<CR><LF>` - new line characters 0x0D, 0x0A

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